

4/28/05

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks
(ROSPATENT) added to list of core patent offices covered
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADOC
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 12 MAR 22 PATDPASPC - New patent database available
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new
fields
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced
NEWS 16 APR 18 New CAS Information Use Policies available online
NEWS 17 APR 25 Patent searching, including current-awareness alerts (SDIs),
based on application date in CA/CAPLUS and USPATFULL/USPAT2
may be affected by a change in filing date for U.S.
applications.
NEWS 18 APR 28 Improved searching of U.S. Patent Classifications for
U.S. patent records in CA/CAPLUS

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:06:12 ON 28 APR 2005

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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STRUCTURE FILE UPDATES: 27 APR 2005 HIGHEST RN 849400-77-7

DICTIONARY FILE UPDATES: 27 APR 2005 HIGHEST RN 849400-77-7

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*
* The CA roles and document type information have been removed from *
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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

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L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 13:06:57 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 28916 TO ITERATE

3.5% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

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FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 568153 TO 588487
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 13:07:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 574251 TO ITERATE

69.7% PROCESSED 400000 ITERATIONS 70 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.08

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 574251 TO 574251
PROJECTED ANSWERS: 70 TO 130

L3 70 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
	161.76	161.97

FILE 'CAPLUS' ENTERED AT 13:07:20 ON 28 APR 2005
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FILE COVERS 1907 - 28 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 27 Apr 2005 (20050427/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 27 L3

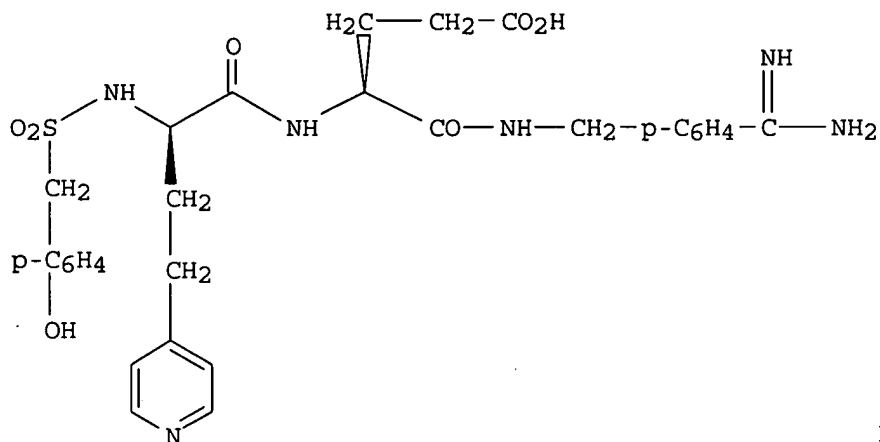
=> d abs bib fhitr 1-27

L4 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

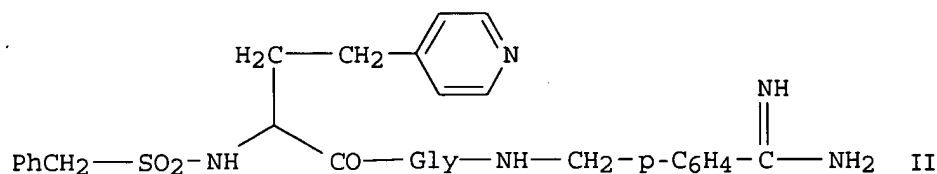
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GI



I



II

AB The invention relates to novel base-substituted benzylamine compds., e.g. (I), and their use as coagulation factor Xa inhibitors. The invention also relates to the production and use of said analogs in the therapy and prophylaxis of cardiovascular diseases and thromboembolic events. Thus, Boc-Gly-4-(acetyloxamidino)benzylamide was Boc-deprotected, coupled with Boc-DL-homoAla(4-Pyr)-OH, the coupled product BOC-deprotected, coupled with phenylmethanesulfonyl chloride, and the final intermediate N-deoxy-acetylated to give (II). In tests for selectivity of activity against Factor Xa vs. activity against thrombin, I had Ki Factor Xa of 0.0036 μ M, against thrombin 100 μ M, for a selectivity of 27778.

AN 2005:260091 CAPLUS

DN 142:317080

TI Synthesis and use of base-substituted benzylamine analogs for use as coagulation factor Xa inhibitors in the treatment and prophylaxis of cardiovascular diseases and thromboembolic events

IN Sturzebecher, Jorg; Steinmetzer, Torsten; Schweinitz, Andrea; Sturzebecher, Anne; Donnecke, Daniel

PA Curacyte Chemistry GmbH, Germany

SO PCT Int. Appl., 118 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

PATENT NO.

KIND

DATE

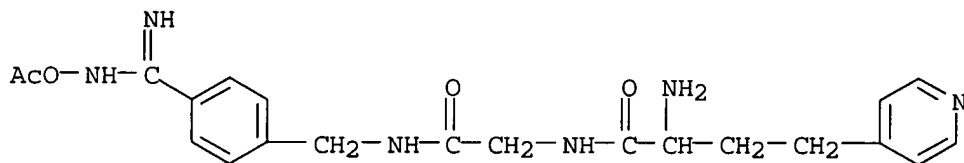
APPLICATION NO.

DATE

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PI WO 2005026198 A1 20050324 WO 2004-EP10225 20040913
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG
DE 10342108 A1 20050414 DE 2003-10342108 20030911
PRAI DE 2003-10342108 A 20030911
IT 848309-25-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and use of base-substituted benzylamine analogs for use as
coagulation factor Xa inhibitors in the treatment and prophylaxis of
cardiovascular diseases and thromboembolic events)
RN 848309-25-1 CAPLUS
CN 4-Pyridinebutanamide, N-[2-[[[4-[(acetyloxy)amino]iminomethyl]phenyl]meth
yl]amino]-2-oxoethyl]- α -amino-, monohydrochloride (9CI) (CA INDEX
NAME)



● HCl

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

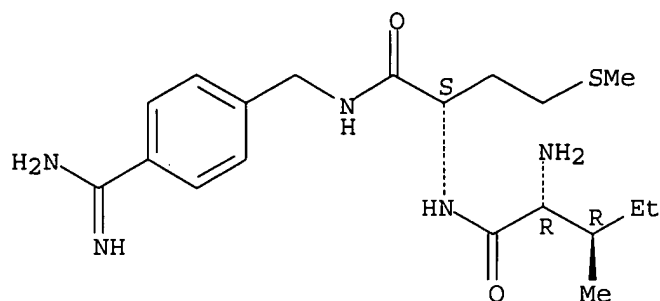
L4 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
AB The 3D structure of human factor VIIa/soluble tissue factor in complex with a
peptide mimetic inhibitor, propylsulfonamide-D-Thr-Met-p-aminobenzamidine,
is determined by x-ray crystallog. As compared with the interactions between
thrombin and thrombin inhibitors, the interactions at S2 and S3 sites
characteristic of factor VIIa and factor VIIa inhibitors are revealed.
The S2 site has a small pocket, which is filled by the hydrophobic
methionine side chain in P2. The small S3 site fits the small size
residue, D-threonine in P3. The structural data and SAR data of the
peptide mimetic inhibitor show that these interactions in the S2 and S3
sites play an important role for the improvement of selectivity vs.
thrombin. The results will provide valuable information for the
structure-based drug design of specific inhibitors for FVIIa/TF.
AN 2004:886606 CAPLUS
DN 142:48484
TI Crystal structure of human factor VIIa/tissue factor in complex with
peptide mimetic inhibitor

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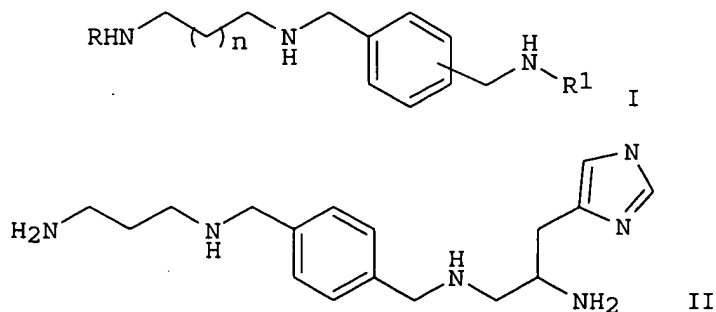
AU Kadono, Shojiro; Sakamoto, Akihisa; Kikuchi, Yasufumi; Oh-eda, Masayoshi;
Yabuta, Naohiro; Koga, Takaki; Hattori, Kunihiro; Shiraishi, Takuya;
Haramura, Masayuki; Kodama, Hirofumi; Esaki, Toru; Sato, Haruhiko;
Watanabe, Yoshiaki; Itoh, Susumu; Ohta, Masateru; Kozono, Toshiro
CS Fuji Gotemba Research Labs, Chugai Pharmaceutical Co., Ltd., Gotemba,
Shizuoka, 412-8513, Japan
SO Biochemical and Biophysical Research Communications (2004), 324(4),
1227-1233
CODEN: BBRCA9; ISSN: 0006-291X
PB Elsevier
DT Journal
LA English
IT 446845-92-7
RL: PAC (Pharmacological activity); PRP (Properties); BIOL (Biological
study)
(crystal structure of human factor VIIa/tissue factor in complex with
peptide mimetic inhibitor in relation to selectivity vs. thrombin)
RN 446845-92-7 CAPLUS
CN L-Methioninamide, L-isoleucyl-N-[[4-(aminoiminomethyl)phenyl]methyl]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
GI



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AB Novel polyamines, their synthesis and use in pharmacol., cosmetic or agricultural applications are provided. Novel polyamines having the structure (I) [wherein, n = 0-8; the aminomethyl functionality can be ortho, meta or para substituted; R = H, Me, Et, 2-aminoethyl, 3-aminopropyl, 4-aminobutyl, 5-aminopentyl, 6-aminohexyl, 7-aminoheptyl, 8-aminooctyl, N-methyl-2-aminoethyl, N-methyl-3-aminopropyl, N-methyl-4-aminobutyl, N-methyl-5-aminopentyl, N-methyl-6-aminohexyl, N-methyl-7-aminoheptyl, N-methyl-8-aminooctyl, N-ethyl-2-aminoethyl, N-ethyl-3-aminopropyl, N-ethyl-4-aminobutyl, N-ethyl-5-aminopentyl, N-ethyl-6-aminohexyl, N-ethyl-7-aminoheptyl, N-ethyl-8-aminooctyl; R1 = H, straight or branched C1-20 (un)saturated aliphatic, aliphatic amine (except for propylamine when R = H, n=1 and the aminomethyl functionality is para substituted), alicyclic group, single or multi-ring aromatic group, single or multi-ring aryl substituted aliphatic group, aliphatic-substituted single or multi-ring aromatic group, single or multi-ring heterocyclyl, single or multi-ring heterocyclic-substituted aliphatic, aliphatic-substituted aromatic group, halogenated forms thereof; wherein said polyamine is a non-sym. xylene] are prepared Also provided are the use of the polyamines in pharmacol., cosmetic or agricultural applications. The polyamines induce antizyme production which in turn down regulates both the production of polyamines

by ornithine decarboxylase (ODC) and the transport of polyamines by its corresponding polyamine transporter. These compds. will preferably enter the cell independent of the polyamine transporter. As drugs, these compds. are used as fungal, bacterial, viral and parasitic agents or to treat any disease associated with cellular proliferation including cancer, mucositis, asthma, inflammation, autoimmune disease, psoriasis, restenosis, rheumatoid arthritis, scleroderma, systemic and cutaneous lupus erythematosus, Type I insulin dependent diabetes, tissue transplantation, osteoporosis, hyperparathyroidism, treatment of peptic ulcer, glaucoma, Alzheimer's disease, Crohn's disease, and other inflammatory bowel diseases. A series of compds. I were screened for their ability to induce frameshifting using the dual luciferase reporter assay in HEK-293 cells. Some of these compds. induced frameshifting substantially better than spermidine. For example, compound (II) showed the percent relative frameshifting value (% RF) of 150% compared to 25 μ M spermidine.

AN 2004:878166 CAPLUS

DN 141:366226

TI Preparation of polyamine analogs that activate antizyme frameshifting

IN Burns, Mark R.; Graminski, Gerard F.

PA Mediquest Therapeutics, Inc., USA

SO U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U.S. Ser. No. 251,819.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004209926	A1	20041021	US 2004-810649	20040329
	US 2004058954	A1	20040325	US 2002-251819	20020923
PRAI	US 2002-251819	A2	20020923		

OS MARPAT 141:366226

IT **673461-33-1P**, 1-Aminomethyl-4-(10-amino-2,7-diazadecyl)benzene

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polyamine analogs as activating agents for antizyme

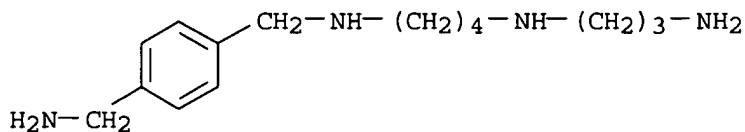
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frameshifting to treat diseases associated with cellular proliferation or as antifungal, antibacterial, antiviral and antiparasitic agents)

RN 673461-33-1 CAPLUS

CN 1,4-Benzenedimethanamine, N-[4-[(3-aminopropyl)amino]butyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

AB A covalently reactive ligand analog (CAL) of formula [L1...Lx(L'-Y"-Y'-Y)...Lm]n: wherein, L1...Lx...Lm are components defining a ligand determinant, LX is a component unit of the ligand determinant selected from the group consisting of an amino acid residue, sugar residue, a fatty acid residue and a nucleotide, L' is a functional group of LX, Y' is atom, covalent bond or linker, Y' is an optional charged or neutral group Y is a covalently reactive electrophilic group that reacts specifically with a receptor that binds to said ligand determinant, and n is an integer from 1 to 1000 m is an integer from 1 to 30.

AN 2004:857331 CAPLUS

DN 141:346124

TI Covalent attachment of ligands to nucleophilic proteins guided by non-covalent binding and applications for diagnosis, therapy, immunoassays and purification of recombinant proteins

IN Paul, Sudhir; Nishiyama, Yasuhiro

PA The University of Texas, USA

SO PCT Int. Appl., 144 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004087059	A2	20041014	WO 2004-US9399	20040326
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2003-457293P P 20030326

IT 775343-00-5DP, conjugates

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation)

(L'-Y"-Y'-Y segment; covalent attachment of ligands to nucleophilic proteins guided by non-covalent binding and applications for diagnosis, therapy and immunoassays)

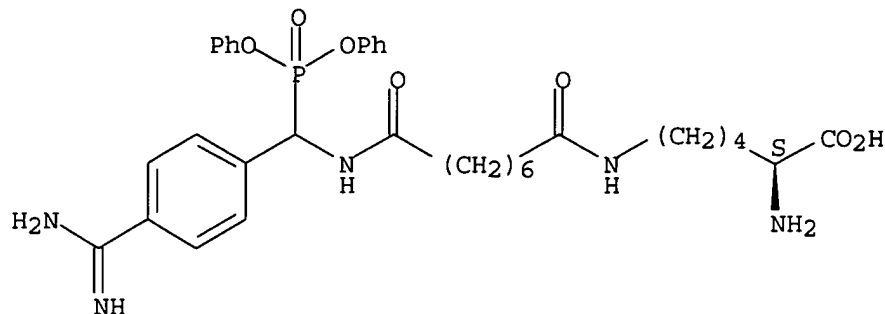
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RN 775343-00-5 CAPLUS

CN L-Lysine, N6-[8-[[[4-(aminoiminomethyl)phenyl](diphenoxyphosphinyl)methyl]amino]-1,8-dioxooctyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

AB The invention provides biol. active compds. that may be reacted with macromols., e.g. albumin, to form covalently linked complexes, wherein the resulting complexes exhibit a desired biol. activity in vivo. More specifically, the complexes are isolated complexes comprising a biol. active moiety covalently bound to a linking group and a protein. The complexes are prepared by conjugating a biol. active moiety, e.g. a renin inhibitor or a viral fusion inhibitor peptide, with purified and isolated protein. The complexes have extended lifetimes in the bloodstream as compared to the unconjugated mol., and exhibit biol. activity for extended periods of time as compared to the unconjugated mol. The invention also provides antiviral compds. that are inhibitors of viral infection and/or exhibit anti-fusiogenic properties. In particular, the invention provides compds. having inhibiting activity against viruses such as human immunodeficiency virus (HIV), respiratory syncytial virus (RSV), human parainfluenza virus (HPV), measles virus (MeV), and simian immunodeficiency virus (SIV) and that have extended duration of action for the treatment of viral infections.

AN 2004:823936 CAPLUS

DN 141:325786

TI Long-acting conjugates of biologically active compounds with macromolecules, and their therapeutic use

IN Silva, Abelardo; Erickson, John E.; Eissenstat, Michael; Afonina, Elena; Gulnik, Sergei

PA Sequoia Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 173 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004085505	A2	20041007	WO 2004-US8847	20040324
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				

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TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG

PRAI US 2003-456472P P 20030324
US 2003-456952P P 20030325
US 2003-518892P P 20031110

OS MARPAT 141:325786

IT 769922-28-3

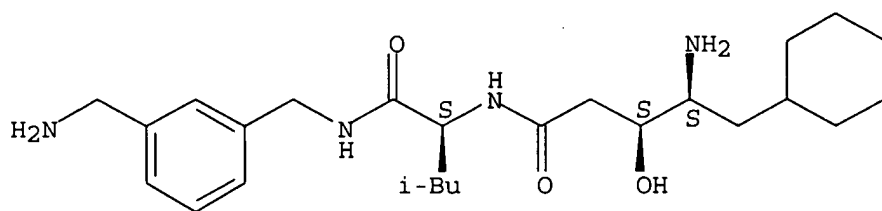
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(long-acting conjugates of biol. active compds. with macromols., and
therapeutic use)

RN 769922-28-3 CAPLUS

CN L-threo-Pentonamide, 4-amino-N-[(1S)-1-[[[3-(aminomethyl)phenyl]methyl]amino]carbonyl]-3-methylbutyl]-2,4,5-trideoxy-5-cyclohexyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

AB The serine protease urokinase-type plasminogen activator (uPA) interacts with a specific receptor (uPAR) on the surface of various cell types, including tumor cells, and plays a crucial role in pericellular proteolysis. High levels of uPA and uPAR often correlate with poor prognosis of cancer patients. Therefore, the specific inhibition of uPA with small mol. active-site inhibitors is one strategy to decrease the invasive and metastatic activity of tumor cells. The authors have developed a series of highly potent and selective uPA inhibitors with a C-terminal 4-amidinobenzylamide residue. Optimization was directed toward reducing the fast elimination from circulation that was observed with initial analogs. The x-ray structures of three inhibitor/uPA complexes have been solved and were used to improve the inhibition efficacy. One of the most potent and selective derivs., benzylsulfonyl-D-Ser-Ser-4-amidinobenzylamide (inhibitor 26), inhibits uPA with a K_i of 20 nM. This inhibitor was used in a fibrosarcoma model in nude mice using lacZ-tagged human HT1080 cells, to prevent exptl. lung metastasis formation. Compared with control (100%), an inhibitor dose of 2 + 1.5 mg/kg/day reduced the number of exptl. metastases to 4.6±1%. Under these conditions inhibitor 26 also significantly prolonged survival. All mice from the control group died within 43 days after tumor cell inoculation, whereas 50% of mice from the inhibitor-treated group survived more than 117 days. This study demonstrates that the specific inhibition of uPA by these inhibitors may be a useful strategy for the treatment of cancer to prevent metastasis.

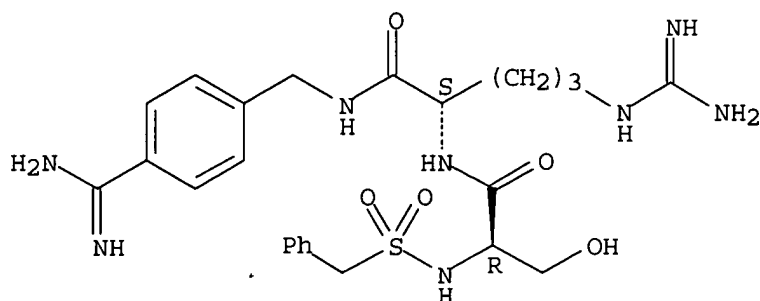
AN 2004:617178 CAPLUS

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4/28/05

DN 141:270994
TI Design of Novel and Selective Inhibitors of Urokinase-type Plasminogen Activator with Improved Pharmacokinetic Properties for Use as Antimetastatic Agents
AU Schweinitz, Andrea; Steinmetzer, Torsten; Banke, Ingo J.; Arlt, Matthias J. E.; Stuerzebecher, Anne; Schuster, Oliver; Geissler, Andreas; Giersiefen, Helmut; Zeslawska, Ewa; Jacob, Uwe; Krueger, Achim; Stuerzebecher, Joerg
CS Curacyte Chemistry GmbH, Jena, D-07745, Germany
SO Journal of Biological Chemistry (2004), 279(32), 33613-33622
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
IT **600142-25-4DP**, and complex with urokinase-type plasminogen activator
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(design of novel and selective inhibitors of urokinase-type plasminogen activator with improved pharmacokinetic properties for use as antimetastatic agents)
RN 600142-25-4 CAPLUS
CN L-Argininamide, N-[(phenylmethyl)sulfonyl]-D-seryl-N-[[4-(aminoiminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
AB The invention discloses the use of acylated 4-amidino or 4-guanidinobenzylamines P4-P3-P2-P1 [P4 = single or multiple (un)substituted benzylsulfonyl; P3 = single or multiple (un)substituted, (un)natural α -amino or α -imino acid in D-configuration; P2 = single or multiple (un)substituted, (un)natural α -amino or α -imino acid in L-configuration; P1 = single or multiple (un)substituted 4-amidino or 4-guanidinobenzylamine] for inhibition of plasma kallikrein (PK). The PK inhibitors of the invention are used for prevention of coagulation activation on artificial surfaces and for systemic addition as anticoagulants/antithrombotics, particularly for prevention of the coagulation activation on artificial surfaces, in order to prevent thromboembolic events. Compound preparation is included.
AN 2004:605410 CAPLUS

10810649

4/28/05

DN 141:150999
TI Use of acylated 4-amidino- and 4-guanidinobenzylamines for inhibition of
plasma kallikrein
IN Sturzebecher, Jorg; Steinmetzer, Torsten; Schweinitz, Andrea
PA Curacyte Chemistry GmbH, Germany
SO Ger. Offen., 40 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10301300	A1	20040729	DE 2003-10301300	20030115
	WO 2004062657	A1	20040729	WO 2004-EP247	20040115
	WO 2004062657	C1	20050106		

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB,
BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR,
CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG,
ES, ES, FI, FI, GB, GD, GE, GE, GH, GH, GH, GM, HR, HR, HU, HU,
ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ,
KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN,
MW, MX, MX, MZ

PRAI DE 2003-10301300 A 20030115

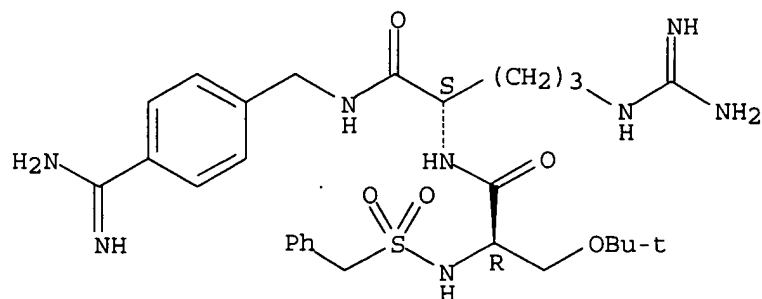
IT 600142-13-0

RL: DEV (Device component use); PAC (Pharmacological activity); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(acylated 4-amidino- and 4-guanidinobenzylamines for inhibition of
plasma kallikrein)

RN 600142-13-0 CAPLUS

CN L-Argininamide, O-(1,1-dimethylethyl)-N-[(phenylmethyl)sulfonyl]-D-seryl-N-
[[4-(aminoiminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

AB A CXCR4 antagonistic peptide, T140, and its analogs, such as Ac-TE14011, inhibit the entry of T cell line-tropic strains of HIV-1 (X4-HIV-1) into T cells. Herein, a series of TE14011 analogs having modifications with N α -acylation by several benzoic acid derivs. in the N-terminal region were synthesized to develop effective compds. with increased biostability. Among these analogs, 4F-benzoyl-TE14011 showed the strongest anti-HIV activity due to CXCR4-antagonism. Structure-activity relation (SAR) studies on TE14011 analogs have disclosed a significant relation between the anti-HIV activity and the Hammett constant (σ) of

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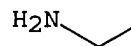
4/28/05

substituted benzoic acids, suggesting that a 4-fluorobenzoyl moiety at the N-terminus of T140 analogs constitutes a novel T140-based pharmacophore for CXCR4 antagonism. Furthermore, identification of a T140-based new pharmacophore led to development of novel low-mol.-weight CXCR4 antagonists.

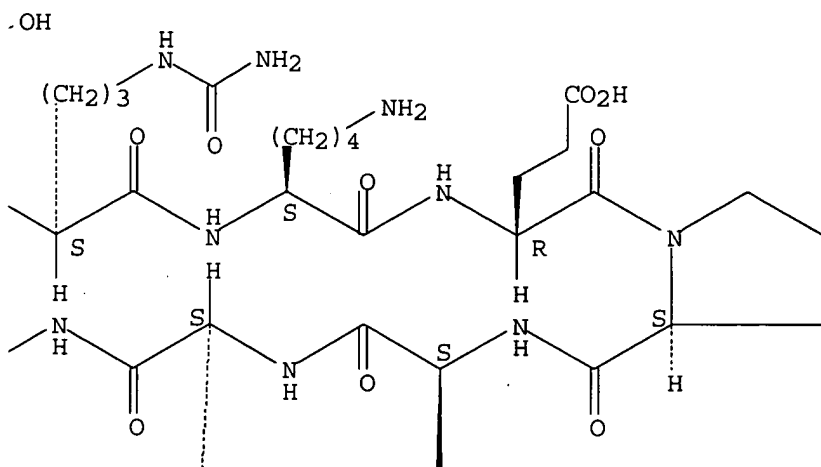
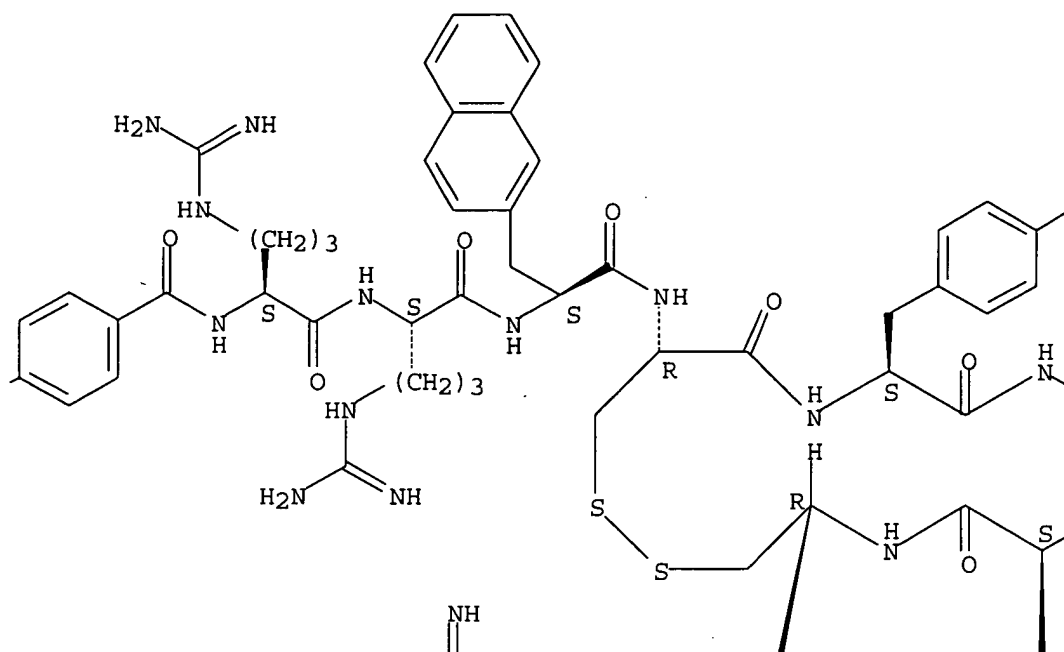
AN 2004:314191 CAPLUS
DN 141:235645
TI New leads of low molecular weight CXCR4 antagonists based on enhancement of the T140-based pharmacophores
AU Mizokami, Satoko; Tamamura, Hirokazu; Hiramatsu, Kenichi; Mizumoto, Makiko; Akamatsu, Miki; Nakashima, Hideki; Wang, Zixuan; Peiper, Stephen C.; Yamamoto, Naoki; Otaka, Akira; Fujii, Nobutaka
CS Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, 606-8501, Japan
SO Peptide Science (2003), Volume Date 2004, 40th, 285-288
CODEN: PSCIFQ; ISSN: 1344-7661
PB Japanese Peptide Society
DT Journal
LA English
IT **664334-43-4**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(leads of low mol. weight CXCR4 antagonists based on enhancement of T140-based pharmacophores)
RN 664334-43-4 CAPLUS
CN L-Argininamide, N2-[4-(aminomethyl)benzoyl]-L-arginyl-L-arginyl-3-(2-naphthalenyl)-L-alanyl-L-cysteinyl-L-tyrosyl-N5-(aminocarbonyl)-L-ornithyl-L-lysyl-D- α -glutamyl-L-prolyl-L-tyrosyl-L-arginyl-N5-(aminocarbonyl)-L-ornithyl-L-cysteinyl-, cyclic (4 \rightarrow 13)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



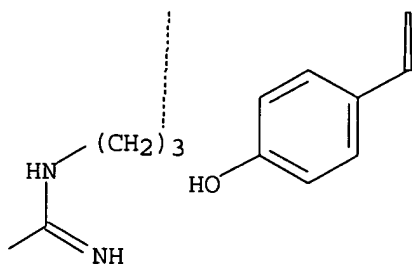
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

4/28/05

PAGE 2-C



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
AB The invention provides synthesis and use of polyamines in pharmacol.,
cosmetic or agricultural applications. The polyamines induce antizyme
production which in turn down regulates both the production of polyamines by
ornithine decarboxylase (ODC) and the transport of polyamines by its
corresponding polyamine transporter. These compds. will preferably enter
the cell independent of the polyamine transporter. As drugs, these
compds. are used to treat any disease associated with cellular proliferation
including but not limited to cancer. As such, they will be useful as
drugs to treat diseases where components of the immune system undergo
undesired proliferation. The compds. will also be effective for the
treatment of unwanted proliferation of hair or skin. The invention also
identifies key structural elements expected to comprise the antizyme
inducing motifs of small mols. related to polyamines.

AN 2004:252193 CAPLUS

DN 140:264534

TI Polyamine analogs that activate antizyme framshifting

IN Burns, Mark R.; Graminski, Gerard F.

PA Mediquest Therapeutics, Inc., USA

SO U.S. Pat. Appl. Publ., 29 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004058954	A1	20040325	US 2002-251819	20020923
	US 2004209926	A1	20041021	US 2004-810649	20040329
PRAI	US 2002-251819	A2	20020923		

OS MARPAT 140:264534

IT **673461-33-1P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

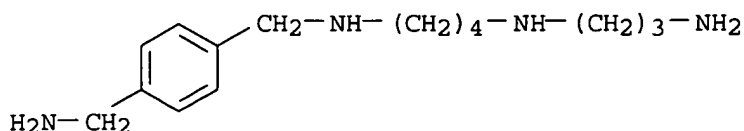
(polyamine analogs that activate antizyme framshifting)

RN 673461-33-1 CAPLUS

CN 1,4-Benzenedimethanamine, N-[4-[(3-aminopropyl)amino]butyl] - (9CI) (CA
INDEX NAME)

10810649

4/28/05



L4 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

AB A CXCR4 antagonistic peptide, T140, and its bio-stable analogs, such as Ac-TE14011, were previously developed. These peptides inhibit the entry of T cell line-tropic strains of HIV-1 (X4-HIV-1) into T cells. Herein, a series of TE14011 analogs having modifications in the N-terminal region were synthesized to develop effective compds. with increased biostability. Among these analogs, 4F-benzoyl-TE14011 (TF14013) showed the strongest anti-HIV activity derived from CXCR4-antagonism, suggesting that a 4-fluorobenzoyl moiety at the N-terminus of T140 analogs constitutes a novel T140-based pharmacophore for CXCR4 antagonists. Structure-activity relationship (SAR) studies on TE14011 analogs with N α -acylation by several benzoic acid derivs. have disclosed a significant relationship between the anti-HIV activity and the Hammett constant (σ) of substituted benzoic acids. TF14013 was found to be stable in mouse serum, but not completely stable in rat liver homogenate due to deletion of the C-terminal Arg14-NH2 from the parent peptide. This biodegrdn. was completely suppressed by N-alkyl-amidation at the C-terminus. Taken together, the enhancement of the T140-based pharmacophores led to development of a novel CXCR4 antagonist, 4F-benzoyl-TE14011-Me (TF14013-Me), which has very high anti-HIV activity and increased biostability.

AN 2003:833174 CAPLUS

DN 140:209914

TI Enhancement of the T140-based pharmacophores leads to the development of more potent and bio-stable CXCR4 antagonists

AU Tamamura, Hirokazu; Hiramatsu, Kenichi; Mizumoto, Makiko; Ueda, Satoshi; Kusano, Shuichi; Terakubo, Shigemi; Akamatsu, Miki; Yamamoto, Naoki; Trent, John O.; Wang, Zixuan; Peiper, Stephen C.; Nakashima, Hideki; Otaka, Akira; Fujii, Nobutaka

CS Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, 606-8501, Japan

SO Organic & Biomolecular Chemistry (2003), 1(21), 3663-3669

CODEN: OBCRAK; ISSN: 1477-0520

PB Royal Society of Chemistry

DT Journal

LA English

IT 664334-43-4P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(development of more potent and bio-stable CXCR4 antagonists by enhancement of T140-based pharmacophores)

RN 664334-43-4 CAPLUS

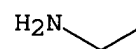
CN L-Argininamide, N2-[4-(aminomethyl)benzoyl]-L-arginyl-L-arginyl-3-(2-naphthalenyl)-L-alanyl-L-cysteinyl-L-tyrosyl-N5-(aminocarbonyl)-L-ornithyl-L-lysyl-D- α -glutamyl-L-prolyl-L-tyrosyl-L-arginyl-N5-(aminocarbonyl)-L-ornithyl-L-cysteinyl-, cyclic (4+13)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

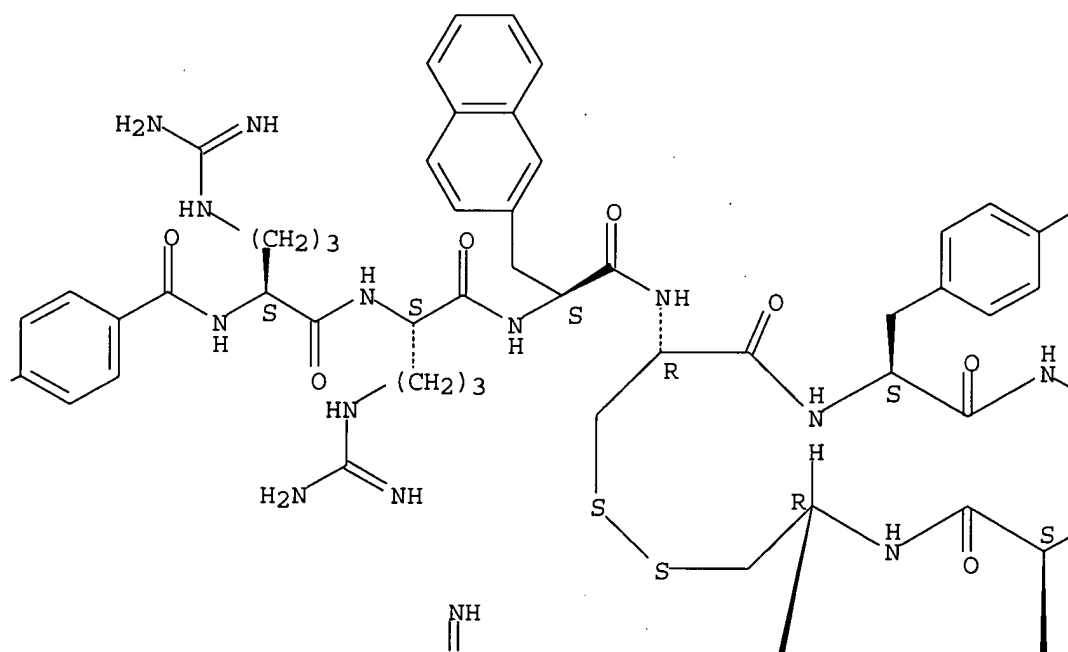
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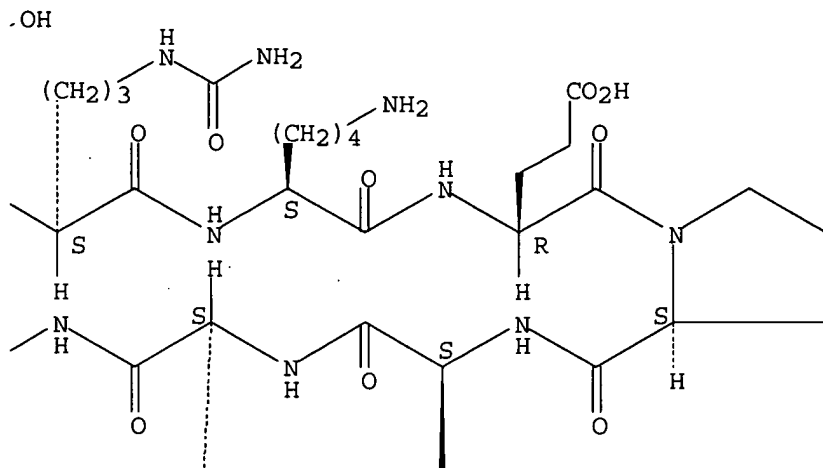
PAGE 1-A



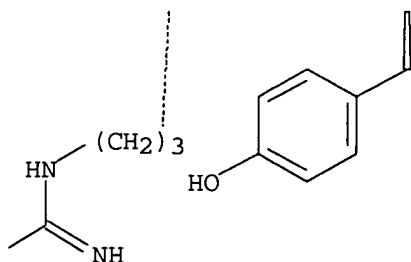
PAGE 1-B



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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

AB Title compds., [e.g., PhCH₂SO₂-D-Ser-Ser-NHCH₂-4-C₆H₄-C(:NH)NH₂ (I)], were prepared and tested as urokinase inhibitors, for use in the prophylaxis and diagnosis of a tumor and for reducing the formation of tumor metastases. Thus, (H₃C)₃COC(O)-Ser(CH₂PH)-OH was reacted with H₂NCH₂-4-C₆H₄-C(:NH)NH₂.HCl, the amine protecting group removed, and the intermediate reacted with PhCH₂SO₂-D-Ser(C(CH₃)₃)-OH; the intermediate protected dipeptide was purified by isolation as first the acetate salt, then the trifluoroacetate salt, in a final yield of 24.64%. In in vivo tests against fibrosarcoma using white mice, after 22 days I reduced metastatic lung tumors by 4.6%, compared with a control group.

AN 2003:737714 CAPLUS

4/28/05

DN 139:246220
TI Synthesis of guanidinylnbenzene-derivative dipeptide conjugate urokinase inhibitors as pharmaceuticals for use in the treatment or diagnosis of metastatic tumors
IN Sturzebecher, Jorg; Steinmetzer, Torsten; Schweinitz, Andrea
PA Curacyte Ag, Germany
SO PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003076391	A2	20030918	WO 2003-EP2489	20030311
	WO 2003076391	A3	20040122		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	DE 10210592	A1	20031002	DE 2002-10210592	20020311
	CA 2478409	AA	20030918	CA 2003-2478409	20030311
	EP 1485345	A2	20041215	EP 2003-714803	20030311
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRAI	DE 2002-10210592	A	20020311		
	DE 2002-10245059	A	20020926		
	DE 2002-10261435	A	20021228		
	WO 2003-EP2489	W	20030311		

OS MARPAT 139:246220

IT **600142-25-4**

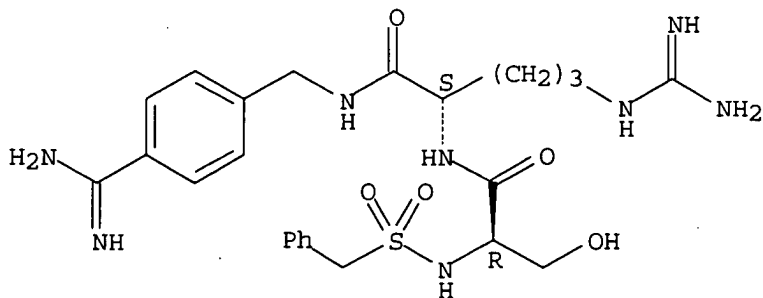
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of guanidinylnbenzene-derivative dipeptide conjugate urokinase inhibitors as pharmaceuticals for use in the treatment or diagnosis of metastatic tumors)

RN 600142-25-4 CAPLUS

CN L-Argininamide, N-[(phenylmethyl)sulfonyl]-D-seryl-N-[[4-(aminoiminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L4 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
AB Claimed are CXCR4 antagonist drugs containing N-containing compds.
A1(CH2)nWxCH[(CH2)mA2]yD (A1 and A2 represents each guanidino, A3B1NR1,
etc.; A3 represents a monocyclic or polycyclic aromatic heterocycle having 1
or 2 hetero atoms; B1 represents a single bond or alkylene; and R1
represents hydrogen or alkyl; W represents C2-3 alkylene, C5-10
cycloalkylene, C6-10 aromatic cycle or C5-10 aromatic heterocycle; y is CO; x

is
CONH; n is an integer of 1 or 2; m is an integer of 2 or 3; and D is
selected from among various substituents) or pharmacol. acceptable salts
thereof as active ingredients. The bioactivities and toxicity of the
title compds. were demonstrated. The title compds. are remedies for
rheumatism, cancer metastasis, etc. Formulations are given.

AN 2002:905852 CAPLUS

DN 138:11404

TI CXCR4 antagonistic drugs comprising nitrogen-containing compounds

IN Yanaka, Mikiro; Yamazaki, Toru; Bannai, Kenji; Hirose, Kunitaka

PA Kureha Chemical Industry Co., Ltd., Japan

SO PCT Int. Appl., 227 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002094261	A1	20021128	WO 2002-JP4846	20020520
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1389460	A1	20040218	EP 2002-771732	20020520
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	US 2004157818	A1	20040812	US 2004-478290	20040116
PRAI	JP 2001-154904	A	20010524		
	WO 2002-JP4846	W	20020520		

OS MARPAT 138:11404

IT 370594-84-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(CXCR4 antagonistic drugs comprising nitrogen-containing compds. and
preparation
of said compds.)

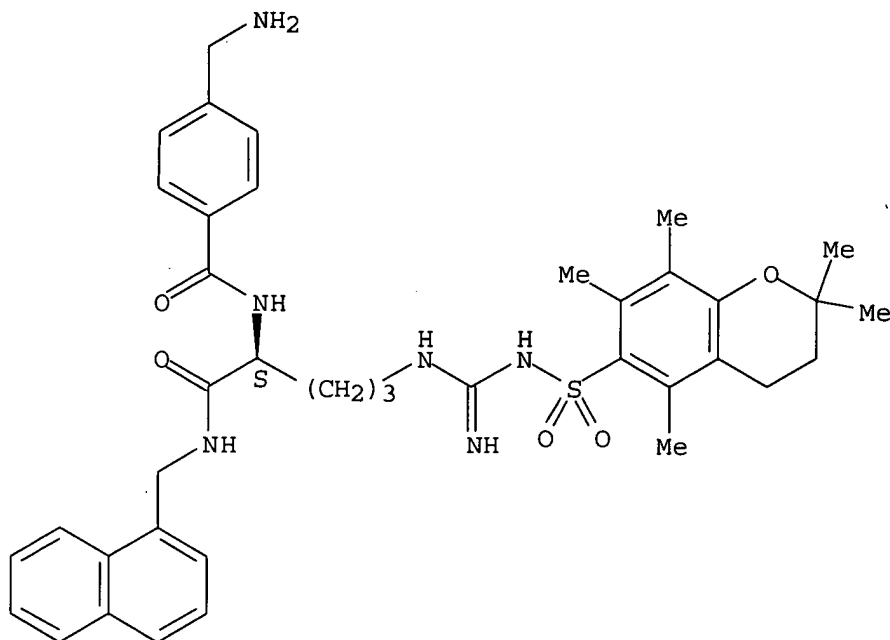
RN 370594-84-6 CAPLUS

CN Benzamide, 4-(aminomethyl)-N-[(1S)-4-[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]-1-[[[(1-naphthalenylmethyl)amino]carbonyl]butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

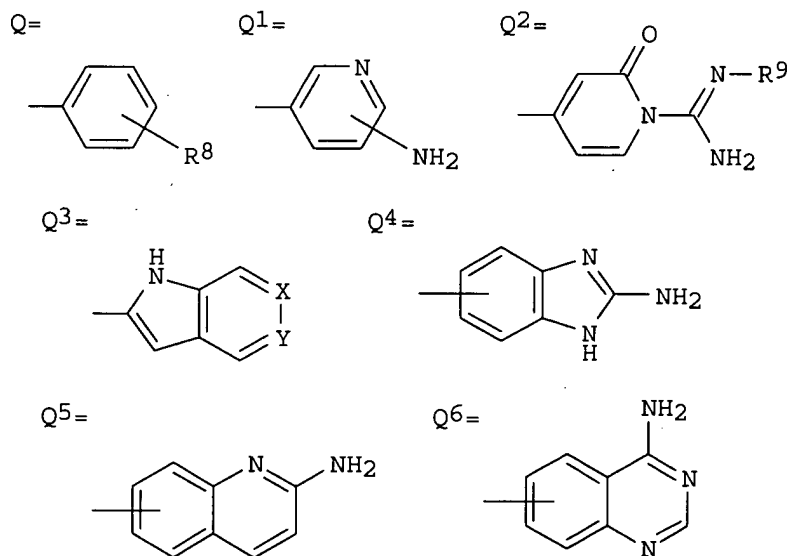
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RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Dipeptide amide derivs. represented by the following general formula
R1CH2NR2COCHR3NR4COCHR5NR6R7 [I; R1 = Q-Q6 (wherein R8 = NH2, aminomethyl,
C(:NR9)NH2; R9 = H, NH2, OH, acyl, (un)substituted and linear or branched
C1-6 alkoxy-carbonyl; one of X and Y is :CH and the other is N); R2 = H,
linear or branched C1-6 alkyl; R3 = hydroxyphenyl, (CH2)mR11 (wherein R11

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= CONH2, NR12CONH2, C(:NH)NH2; R12 = H, linear or branched C1-3 alkyl); R4 = H, linear or branched C1-6 alkyl; R7 = H, linear or branched C1-6 alkyl, SO2R14 (wherein R14 = linear or branched C1-8 alkyl)] are prepared Crystals of a complex of VIIa factor/human soluble tissue factor with a low-mol. weight reversible VIIa factor inhibitor selected from the dipeptide amide derivs. I are prepared and studied by X-ray crystal structure anal. Also disclosed is a medium carrying the whole or a part of the coordinate data of the stereostructure of the complex of human VIIa factor/human soluble tissue factor with a low-mol. weight reversible VIIa factor inhibitor obtained by X-ray crystal structure anal. of the above crystals recorded thereon. A method of designing a low-mol. weight reversible VIIa factor inhibitor by using the above data is claimed. These peptide derivs. are useful as antithrombotics for preventing or treating deep venous thrombosis after surgery, restenosis after PTCA surgery, chronic thrombosis such as chronic DIC, cardiac thromboembolism, or myocardial or cerebral infarction. Thus, 1-(tert-butoxycarbonyl)-D-tryptophyl-N1-(4-cyanobenzyl)-L-glutamine (preparation given) was condensed with 3-(methoxycarbonyl)benzylsulfonyl chloride in the presence of Et3N in DMF at room temperature for 12 h to give N-[[3-(methoxycarbonyl)benzyl]sulfonyl]-1-(tert-butoxycarbonyl)-D-tryptophyl-N1-(4-cyanobenzyl)-L-glutamine which was treated with saturated HCl/MeOH at room temperature for 20 h and refluxed with ammonium acetate and

NH3

in ethanol for 1 h to give a mixture of N-[[3-(methoxycarbonyl)benzyl]sulfonyl]-D-tryptophyl-N1-(4-amidinobenzyl)-L-glutamine and N-[[3-(ethoxycarbonyl)benzyl]sulfonyl]-D-tryptophyl-N1-(4-amidinobenzyl)-L-glutamine. The latter mixture was stirred with a mixture of ethanol and 2 N aqueous EtOH at room temperature for 1 h and acidified with 1 N aqueous HCl to

give

N-[(3-carboxybenzyl)sulfonyl]-D-tryptophyl-N1-(4-amidinobenzyl)-L-glutamine (II). II in vitro inhibited factor VIIa and thrombin with IC50 of 37 and 17,870 nM, resp. A complex of human factor VII/human soluble tissue factor with N-(carboxymethylsulfonyl)-D-tryptophyl-N1-(4-amidinobenzyl)-L-glutamine and that with N-(ethanesulfonyl)-p-phenyl-D-phenylalanyl-N1-(4-amidinobenzyl)-L-glutamine were prepared in a crystalline

form

and studied by X-ray crystal structure anal.

AN 2002:615652 CAPLUS

DN 137:169797

TI Preparation of peptide derivatives as factor VIIa inhibitors

IN Shiraishi, Takuya; Kadono, Shojiro; Haramura, Masayuki; Sato, Haruhiko; Kozono, Toshiro; Koga, Takaki; Sakamoto, Akihisa

PA Chugai Seiyaku Kabushiki Kaisha, Japan

SO PCT Int. Appl., 246 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

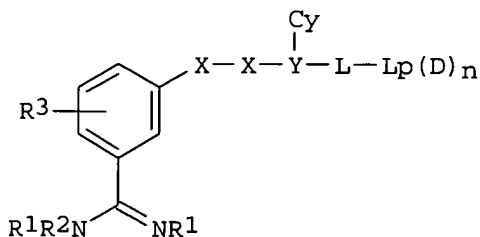
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002062829	A1	20020815	WO 2002-JP883	20020204
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,			

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	CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
EP 1364960	A1 20031126 EP 2002-711294 20020204
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2004087511	A1 20040506 US 2003-470801 20030801
PRAI JP 2001-27474	A 20010202
WO 2002-JP883	W 20020204
OS	MARPAT 137:169797
IT	446845-92-7P
	RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of peptide derivs. as VIIa factor inhibitors and antithrombotics and X-ray crystal structure anal. of human VIIa factor-peptide inhibitor complex)
RN	446845-92-7 CAPLUS
CN	L-Methioninamide, L-isoleucyl-N-[[4-(aminoiminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

Chemical structure of a thioester derivative. The structure shows a benzamide group (H₂N-C(=NH)-C₆H₄-) linked via a methylene group to a thioester moiety (-C(=O)-S-). The sulfur atom is part of a chain: -S-CH₂-CH₂-SMe. A dashed line indicates a hydrogen bond between the amide NH of the benzamide group and the carbonyl oxygen of a second amide group. This second amide group is part of a side chain: -NH-C(=O)-CH(R)-CH(NH₂)-CH(R)-CH(Et)-CH(Me). The stereocenters are indicated with wedges and dashes.

L4 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
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alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly)cyclic, (hetero)cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly)cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = H bond donor group; n = 0-2], or corresponding compds. in which the (un)substituted amidino group R1R2NC(:NR1) is replaced with an (un)substituted aminomethyl group, or their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. 3-Amidino- and 3-(aminomethyl)benzoyl-D-phenylglycine 4-aminomethylcyclohexylmethanamide are among 190 compds. synthesized.

AN 2002:354079 CAPLUS

DN 136:355487

TI Preparation of meta-benzamidine derivatives of amino acids or dipeptides as serine protease inhibitors

IN Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young, Stephen Clinton; Morgan, Phillip John

PA Tularik Ltd., UK

SO U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S. Ser. No. 485,678.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002055522	A1	20020509	US 2001-988082	20011119
	US 6740682	B2	20040525		
	WO 9911658	A1	19990311	WO 1998-GB2605	19980828
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	WO 2000077027	A2	20001221	WO 2000-GB2291	20000613
	WO 2000077027	A3	20010525		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2003216403	A1	20031120	US 2003-296245	20030514
	US 2004143018	A1	20040722	US 2004-752568	20040108

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PRAI	GB	1997-18392	A	19970829
	GB	1998-3173	A	19980213
	WO	1998-GB2605	W	19980828
	GB	1999-13823	A	19990614
	US	1999-142064P	P	19990702
	US	2000-485678	A2	20000225
	WO	2000-GB2291	A2	20000613
	GB	1999-18741	A	19990809
	GB	1999-29552	A	19991214
	GB	1999-29553	A	19991214
	WO	2001-GB2566	W	20010612
	US	2001-988082	A1	20011119

OS MARPAT 136:355487

IT 221232-83-3P

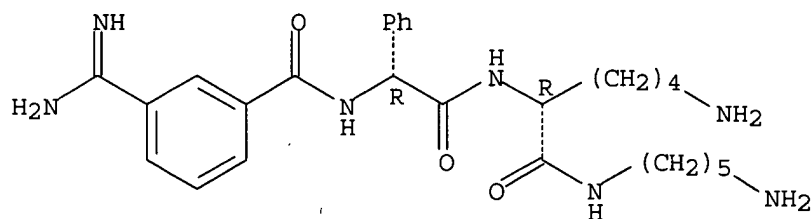
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

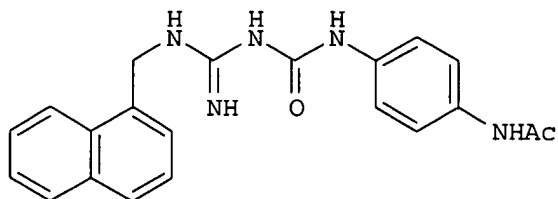
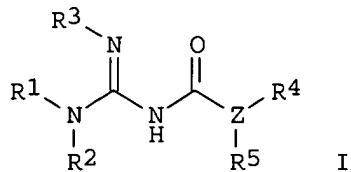
RN 221232-83-3 CAPLUS

CN D-Lysinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-N-(5-aminopentyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
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II

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AB The title compds. [I; Z = N, O, CH; R1 = H, alkyl; R2 = (un)substituted alkyl, cycloalkyl, (hetero)arylalkyl; NR1R2 = (un)substituted 5-6 membered ring; R3 = H, alkyl, alkylaminocarbonyl; R4 = H, alkyl, alkenyl, etc.; R5 = absent (when Z = O), H, alkyl; ZR4R5 = (un)substituted 5-6 membered ring] which are novel 5-HT7 receptor ligands useful in treating sleep disorders, pain, depression, and schizophrenia, were prepared E.g., a 3-step synthesis of II which showed Ki of 13 nM at 5-HT7 receptor, was given.

AN 2002:353419 CAPLUS

DN 136:369519

TI Preparation of amidino-urea serotonin receptor ligands

IN Hong, Yufeng; Kuki, Atsuo; Tompkins, Eileen Valenzuela; Peng, Zhengwei; Luthin, David Robert

PA Warner-Lambert Company, USA

SO PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002036554	A2	20020510	WO 2001-IB2022	20011026
	WO 2002036554	A3	20030313		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2425285	AA	20020510	CA 2001-2425285	20011026
	AU 2001095836	A5	20020515	AU 2001-95836	20011026
	EP 1332127	A2	20030806	EP 2001-976571	20011026
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	BR 2001015079	A	20030819	BR 2001-15079	20011026
	JP 2004522705	T2	20040729	JP 2002-539314	20011026
	US 2004044037	A1	20040304	US 2003-415619	20030429
PRAI	US 2000-243959P	P	20001030		
	WO 2001-IB2022	W	20011026		

OS MARPAT 136:369519

IT **422567-68-8P**

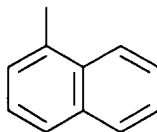
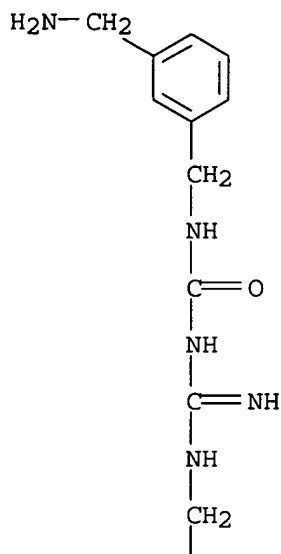
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of amidino-urea serotonin receptor ligands)

RN 422567-68-8 CAPLUS

CN Urea, N-[[3-(aminomethyl)phenyl)methyl]-N'-[imino[(1-naphthalenyl)methyl]amino]methyl]- (9CI) (CA INDEX NAME)

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L4 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
 AB A series of 4-amidinobenzylamine-based peptidomimetic inhibitors of urokinase was synthesized. The most potent one, benzylsulfonyl-d-Ser-Ala-4-amidinobenzylamide, inhibits uPA with a K_i of 7.7 nM but is less selective than 10 with a Gly as P2 residue. Hydroxyamidine and carbonate prodrugs were prepared, which are rapidly converted into the active inhibitors in rats after s.c. application.
 AN 2002:116967 CAPLUS
 DN 137:134463
 TI 4-Amidinobenzylamine-Based Inhibitors of Urokinase
 AU Kunzel, Sebastian; Schweinitz, Andrea; Reissmann, Siegmund; Sturzebecher, Jorg; Steinmetzer, Torsten
 CS Universitat Jena, Institut fur Biochemie und Biophysik, Jena, D-07743, Germany
 SO Bioorganic & Medicinal Chemistry Letters (2002), 12(4), 645-648
 CODEN: BMCL8; ISSN: 0960-894X
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 137:134463

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IT 380237-53-6P

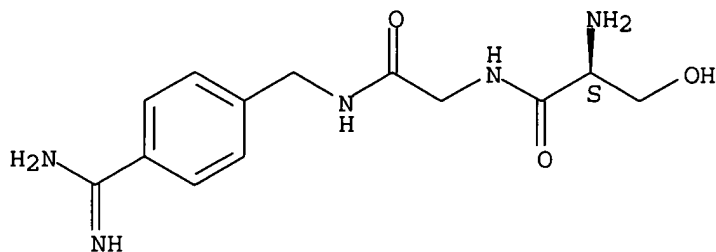
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and structure activity of amidinobenzylamine-based inhibitors of urokinase)

RN 380237-53-6 CAPLUS

CN Glycinamide, L-seryl-N-[[4-(aminoiminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

AB The invention provides derivs. of amidinobenzylamine, especially derivs. of 4-amidinobenzylamine, with two bonded amino acids. These derivs. represent a novel group of highly active and very selective FXa-inhibitors for treating cardiovascular diseases and thrombotic events.

AN 2001:923823 CAPLUS

DN 136:31691

TI Amidinobenzylamine derivatives as inhibitors for blood-clotting factor Xa, preparation, and therapeutic use

IN Sturzebecher, Jorg; Steinmetzer, Torsten; Kunzel, Sebastian; Schweinitz, Andrea

PA Curacyte A.-G., Germany

SO PCT Int. Appl., 13 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

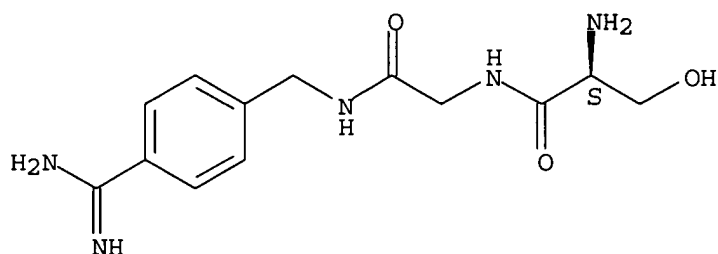
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001096366	A2	20011220	WO 2001-EP6814	20010615
	W: AU, BR, CA, CR, JP, NO, NZ, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10029015	A1	20011220	DE 2000-10029015	20000615
	CA 2412181	AA	20021209	CA 2001-2412181	20010615
	EP 1294741	A2	20030326	EP 2001-960319	20010615
	EP 1294741	B1	20050216		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	JP 2004503563	T2	20040205	JP 2002-510507	20010615
	AT 289319	E	20050315	AT 2001-960319	20010615
	US 2003166577	A1	20030904	US 2003-311364	20030321
	US 6841701	B2	20050111		

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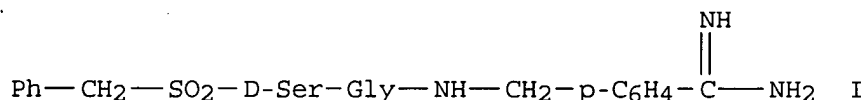
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PRAI DE 2000-10029015 A 20000615
WO 2001-EP6814 W 20010615
OS MARPAT 136:31691
IT **380237-53-6**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(amidinobenzylamine derivs. as inhibitors for blood-clotting factor Xa,
preparation, and therapeutic use)
RN 380237-53-6 CAPLUS
CN Glycinamide, L-seryl-N-[[4-(aminoiminomethyl)phenyl]methyl]- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
GI



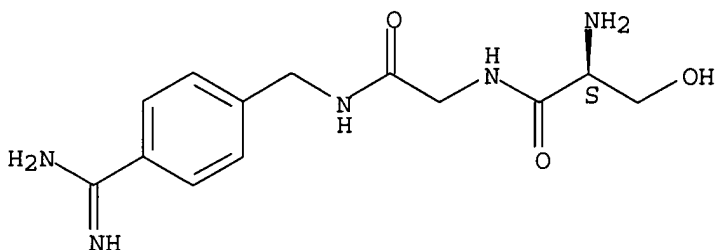
AB The invention relates to a highly active, highly specific urokinase inhibitor which is suitable for therapeutic applications or diagnosis of metastatic tumors, and can be synthesized in an extremely simple manner. It was found that amidino benzylamine derivs., especially 4-amidino-benzylamine, with two bonded amino acids [e.g., (I)] represent a new group of highly active and very selective uPA inhibitors. Beginning with 4-cyanobenzylamine, chloroformic acid iso-Bu ester, and H-D-Ser(CH₂Ph)-OH, I was synthesized in 10 steps. I showed in vitro inhibition of urokinase activity with a K_i of 0.036 μM.

AN 2001:923749 CAPLUS
DN 136:37951
TI Preparation of D-Ser-Gly-amidinobenzylamide urokinase inhibitors for use in treatment of metastatic tumors.
IN Sturzebecher, Jorg; Steinmetzer, Torsten; Kunzel, Sebastian; Schweinitz, Andrea
PA Friedrich-Schiller- Universitat Jena, Germany
SO PCT Int. Appl., 13 pp.
CODEN: PIXXD2
DT Patent
LA German

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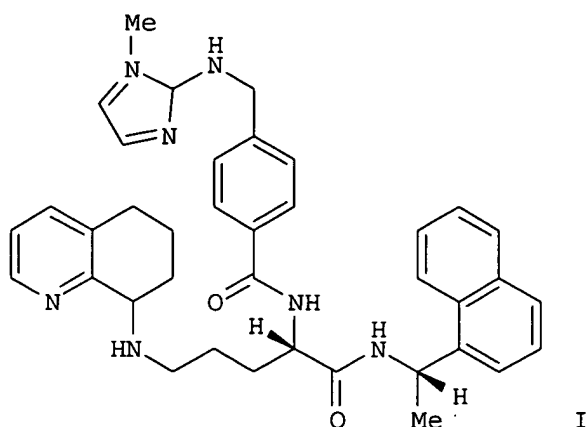
FAN.CNT 1

Absolute stereochemistry.



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AB Novel nitrogenous compds. represented by general formula
A1-(CH₂)_{n1}-W-X-CH[(CH₂)_{n2}-A2]-Y-D [n₁ = 0-3; n₂ = 0-4; A₁, A₂ =
(un)substituted guanidino or amidino, A₃-B₁-NR₁-, A₃-CR₂A₄-NR₁-, wherein
A₃, A₄ = (un)substituted 5- to 12-membered mono- or polycyclic
heterocyclyl which may be partially saturated; B₁ = single bond, CR₂R₃; R₁,
R₂, R₃ = H, (un)substituted C₁-6 alkyl, C₂-6 alkenyl or alkynyl, or R₂ is
bonded to R₁ or R₃ to form a ring; W = (un)substituted C₁-7 alkylene, C₂-7
alkenylene, C₂-7 alkynylene, or group B [wherein group B = C₃-10 mono- or
polycyclic alkylene, (un)substituted 6- to 15-membered ring mono or
polycyclic aryl which may be partially saturated, or (un)substituted 6- to
15-membered ring mono or polycyclic heterocyclyl optionally containing 1-3 of
O, S, and N atoms and optionally partially saturated]; D = -W₁-G₁-G₂-W₂-G₃; W₁
= O, S, (un)substituted NR₄ or NHR₄ (R₄ = H, -G₁'-G₁'-G₂'-W₂'-G₃'); G₁,
G₁' = single bond, (un)substituted C₁-10 alkylene or C₂-10 alkenylene or
alkynylene, etc.; G₂, G₂' = single bond, group B; W₂, W₂' = single bond, O,
S, (un)substituted NH, etc.; G₃, G₃' = H, (un)substituted and linear or
branched C₁-6 alkyl, C₂-6 alkenyl, group B, etc.; X = -Z₁-Z-Z₂-; wherein Z
= CO, S, SO, SO₂, (un)substituted CH₂; Z₁, Z₂ = single bond, O, S,
(un)substituted NH; Y = CO, S, SO, SO₂] are prepared These compds. possess
excellent antiretroviral activity and protective activity for cells
infected with HIV-1 and are useful for the treatment of AIDS or
AIDS-related complications. Thus, N α -deprotection of
Na-Fmoc-N δ -Boc-L-ornithine (1S)-1-(1-naphthyl)ethylamide with
diethylamine in DMF followed by condensation with 4-[N-Boc-N-(1-
methylimidazol-2-yl)aminomethyl]benzoic acid using 1-ethyl-3-(3-
dimethylaminopropyl)carbodiimide hydrochloride and HOBT in DMF gave
N α -[4-[[[(1-methylimidazol-2-yl)amino]methyl]benzoyl]-N δ -Boc-L-
ornithine N-[(1S)-1-(1-naphthyl)ethyl]amide which underwent
N δ -deprotection with a mixture of 4 M HCl/dioxane and methanol at room
temperature for 2 h and reductive amination with 5,6,7,8-tetrahydroquinolin-8-
one using sodium cyanoborohydride in methanol, followed by treatment with
HCl to give (2S)-2-[[4-[[[(1-methylimidazol-2-yl)amino]methyl]benzoyl]amino
]-5-(5,6,7,8-tetrahydroquinolin-8-ylamino)valeric acid
N-[(1S)-1-(1-naphthyl)ethyl]amide hydrochloride (I.xHCl). I.xHCl in vitro
EC₅₀ of 0.025 μ M for inhibiting the cell injury of MT-4 cells infected
with HIV-1IIB. A tablet formulation containing N α -[4-(N-2-
picolylaminomethyl)-1-naphthylcarbonyl]-L-arginyl-D-3-(1-naphthyl)alanine
was prepared

AN 2001:780851 CAPLUS

DN 135:344724

10810649

4/28/05

TI Preparation of amino acid amide and dipeptide derivatives and antiviral
drugs containing the same
IN Yamazaki, Toru; Maruoka, Hiroshi; Suzuki, Shigeru; Mukade, Tsutomu;
Hirose, Kunitaka; Yanaka, Mikiro; Yamamoto, Naoki
PA Kureha Chemical Industry Co., Ltd., Japan
SO PCT Int. Appl., 226 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001079168	A1	20011025	WO 2001-JP3123	20010411
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 2001048753	A5	20011030	AU 2001-48753	20010411
	CA 2405690	AA	20021009	CA 2001-2405690	20010411
	EP 1273571	A1	20030108	EP 2001-921809	20010411
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2004092556	A1	20040513	US 2002-257340	20021121
PRAI	JP 2000-114067	A	20000414		
	WO 2001-JP3123	W	20010411		

OS MARPAT 135:344724

IT **370594-84-6P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

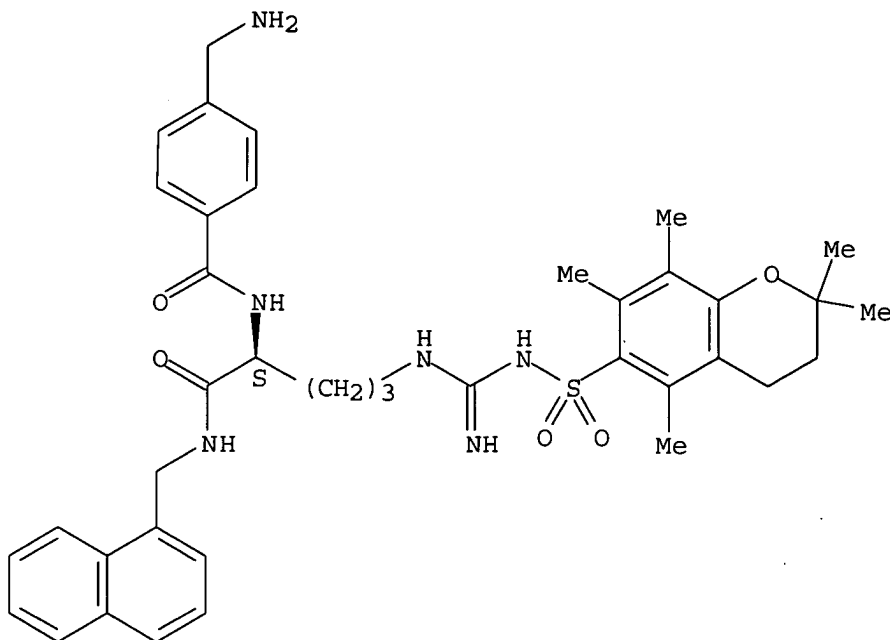
(preparation of amino acid amide and dipeptide derivs. as antiretroviral drugs for treatment of AIDS)

RN 370594-84-6 CAPLUS

CN Benzamide, 4-(aminomethyl)-N-[(1S)-4-[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]-1-[(1-naphthalenylmethyl)amino]carbonyl]butyl]- (9CI) (CA INDEX NAME)

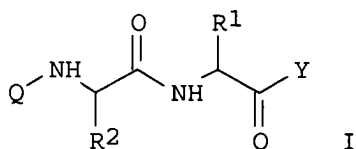
Absolute stereochemistry.

4/28/05



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB The present invention relates to compds. of general formula I wherein R1 represents a (C1-C7) alkyl group which can be substituted or a cycloalkyl or cycloalkylalkyl group or a (CH2)n-X-R3 group; R2 represents a (C1-C7) alkyl group which can be substituted or a cycloalkyl or cycloalkylalkyl group or a Ph, benzyl or 2-phenylethyl group which can be substituted on the Ph group or a carbocyclic or heterocyclic group; R3 is alkyl; n is 1-3; X is S, O; Y is represented by the two tautomeric forms of arylalkylamine; Q represents an R4-SO2- group wherein R4 represents a (C1-C8)alkyl group or a cycloalkylalkyl group or a benzyl group which can be substituted, were prepared as antithrombotic agents. Thus, (α ,R)-N-[(1S)-1-[[[4-(aminoiminomethyl)phenyl]methyl]amino]carbonyl]pentyl]- α -[[[phenylmethyl]sulfonyl]amino]-1H-indole-3-propanamide hydrochloride was prepared and tested in rats for its antithrombotic activity.

AN 2000:707197 CAPLUS

DN 133:267159

TI Preparation of N-sulfonyl-dipeptides as antithrombotic agents

IN Alcouffe, Chantal; Bellevergue, Patrice; Dellac, Genevieve; Latham, Christopher; Martin, Valerie; Masson, Christine; McCort, Gary

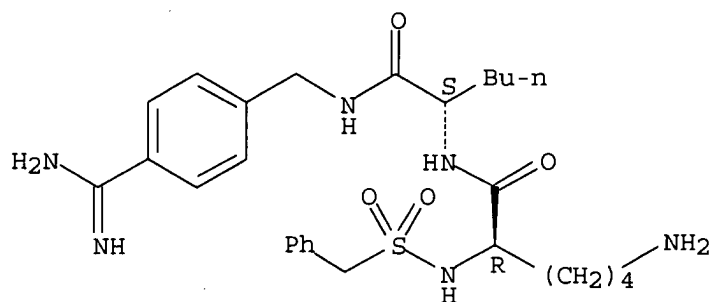
10810649

4/28/05

PA Sanofi-Synthelabo, Fr.
SO PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000058346	A1	20001005	WO 2000-FR696	20000321
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2791683	A1	20001006	FR 1999-3933	19990330
PRAI	FR 1999-3933	A	19990330		
OS	MARPAT 133:267159				
IT	296787-28-5P				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(preparation of N-sulfonyl-dipeptides as antithrombotic agents)				
RN	296787-28-5 CAPLUS				
CN	L-Norleucinamide, N2-[(phenylmethyl)sulfonyl]-D-lysyl-N-[[4-(aminoiminomethyl)phenyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (+).



● HCl

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
AB We have previously synthesized a potent and selective B1 bradykinin receptor antagonist, JMV 1645 (H-Lys-Arg-Pro-Hyp-Gly-Igl-Ser-D-BT-OH), containing a dipeptide mimetic ((3S)-amino-5-carbonylmethyl-2,3-dihydro-1,5-benzothiazepin-4(5H)-one (D-BT) moiety) at the C-terminal. Analogs of

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this potent B1 bradykinin receptor antagonist in which the central Pro2-Hyp3-Gly4-Igl5 tetrapeptide has been replaced by constrained N-1-substituted-1,3,8-triazaspiro[4.5]decan-4-one ring system were synthesized. Among these analogs, compound JMV 1640 was found to have an affinity of 24.10 ± 9.48 nM for the human cloned B1 receptor. It antagonized the [des-Arg10]-kallidin-induced contraction of the human umbilical vein ($pA_2 = 6.1 \pm 0.1$). Compound JMV 1640 was devoid of agonist activity at the kinin B1 receptor. Moreover, it did not bind to the human cloned B2 receptor. Therefore, JMV 1640 constitutes a lead compound for the rational search of nonpeptide B1 receptor analogs based on the BK sequence.

AN 2000:338366 CAPLUS

DN 133:177451

TI A Rational Approach to the Design and Synthesis of a New Bradykinin B1 Receptor Antagonist

AU Bedos, Philippe; Amblard, Muriel; Subra, Gilles; Dodey, Pierre; Luccarini, Jean-Michel; Paquet, Jean-Luc; Pruneau, Didier; Aumelas, Andre; Martinez, Jean

CS Laboratoire des Aminoacides Peptides et Proteines, Universites Montpellier I et II Faculte de Pharmacie, Montpellier, 34060, Fr.

SO Journal of Medicinal Chemistry (2000), 43(12), 2387-2394

CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

IT 288154-12-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

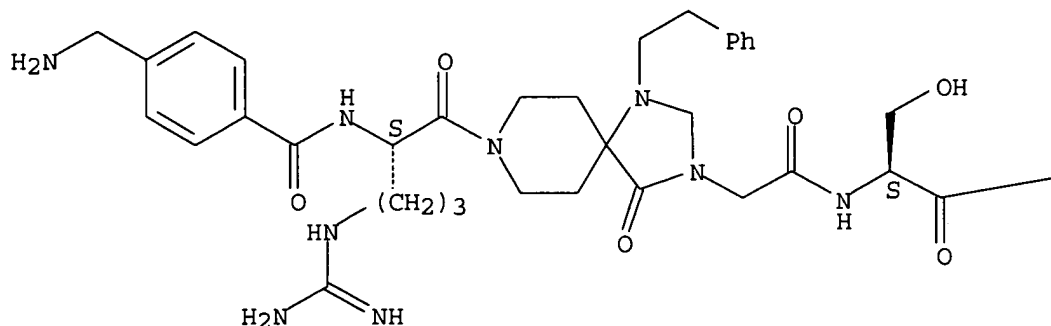
(preparation and structure-activity relationship of Bradykinin B1 receptor antagonist)

RN 288154-12-1 CAPLUS

CN L-Serinamide, N2-[4-(aminomethyl)benzoyl]-L-arginyl-4-oxo-1-(2-phenylethyl)-1,3,8-triazaspiro[4.5]decane-3-acetyl-N-[(3S)-5-(carboxymethyl)-2,3,4,5-tetrahydro-4-oxo-1,5-benzothiazepin-3-yl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

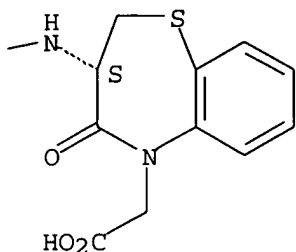
PAGE 1-A



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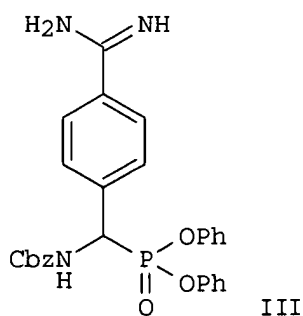
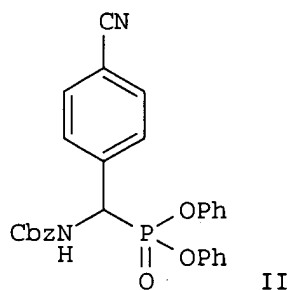
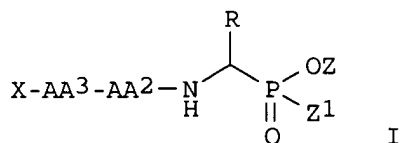
4/28/05

PAGE 1-B



RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Peptidyl α -aminoalkylphosphonic acid diesters with basic substituents I [R = Ph, CH₂Ph, C1-6 alkyl substituted with amidino, guanidino, isothioureido, or amino; Z = C1-6 perfluoroalkyl, Ph, Ph substituted with J; Z1 = C1-6 perfluoroalkyloxy, phenoxy, phenoxy substituted with J, C1-6 alkoxy, halo; J = halo, C1-6 alkyl, C1-6 perfluoroalkyl, C1-6 alkoxy, NO₂, CN, OH, CO₂H, amino, C1-6 alkylamino, C2-12 dialkylamino, C1-6 acyl, C1-6 alkoxycarbonyl, C1-6 alkylthio; AA2, AA3 = independently bond, blocked or unblocked D-, L-, or achiral amino acid residue; X = Y-CO, Y-SO₂; Y = Ph-CH:CH, (2-furyl)CH:CH, (2-thienyl)CH:CH, (2-Pyridyl)CH:CH, 2-phenoxyphenyl, 3-phenoxyphenyl,

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substituted Ph, C1-6 alkenyl substituted with a heterocyclic group, (un)substituted Ph, or (un)substituted naphthyl] and pharmaceutically acceptable salts thereof were prepared as compds. for use in inhibiting serine proteases with trypsin-like specificity and as anti-inflammatory agents, anticoagulants, and anti-tumor agents. Thus, condensation of 9.75 g 4-cyanobenzaldehyde with 7.65 g benzyl carbamate and 13.5 mL tri-Ph phosphite in 20 mL glacial acetic acid gave 70% cyanophenylphosphonate II. Amidation of II with ammonia and ammonium chloride in MeOH gave amidinophenyl derivative III as its HCl salt. III and related compds. were tested for inhibition of a variety of serine proteases.

AN 1999:582644 CAPLUS

DN 131:214554

TI Preparation of basic α -aminoalkylphosphonate derivatives as serine protease inhibitors

IN Powers, James C.; Jackson, Delwin S.; Ni, Liming

PA Georgia Tech Research Corp., USA

SO U.S., 18 pp., Cont.-in-part of U.S. 5,686,419.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5952307	A	19990914	US 1997-907840	19970814
	US 5686419	A	19971111	US 1994-184286	19940121
PRAI	US 1994-184286	A2	19940121		

OS MARPAT 131:214554

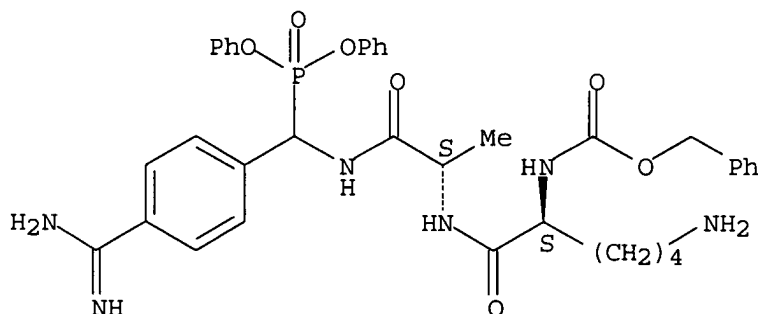
IT **242817-08-9P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of basic α -aminoalkylphosphonate derivs. as serine protease inhibitors)

RN 242817-08-9 CAPLUS

CN L-Alaninamide, N2-[(phenylmethoxy)carbonyl]-L-lysyl-N-[[4-(aminoiminomethyl)phenyl](diphenoxyphosphinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



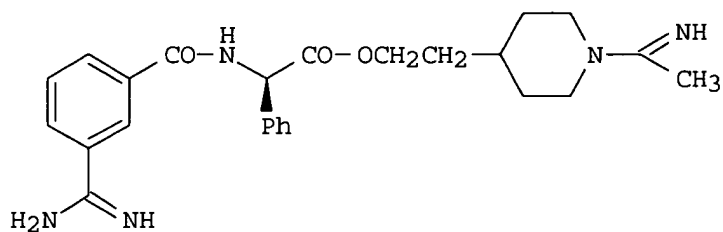
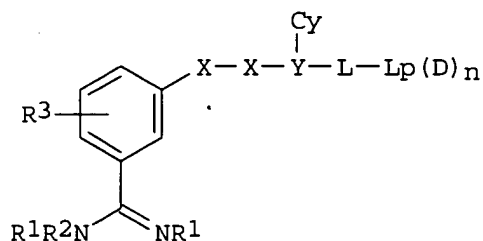
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN

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AB Title compds. I [R1, R2 = H, OH, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, alkoxyalkyl, alkoxyacetyl, acyloxymethoxycarbonyl or alkylamino optionally substituted by hydroxy, alkylamino, alkoxy, oxo, aryl, cycloalkyl; R3 = R1, R2, amino, halo, cyano, nitro, thiol, alkylthio, alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly)cyclic, (hetero)cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly)cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = H bond donor group; n = 0-2] and their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. Synthesis methodol. for preparing some I was provided, and common starting materials were Fmoc- or Boc-(D)-phenylglycine and m-amidinobenzoic acid. Descriptions of enzyme assays were given, but no enzyme inhibition data was provided for I. To measure the antithrombotic activity, a partial thromboplastin time test assay was done, and for example, m-amidinobenzoyl-D-phenylglycine ester II (preparation not given, but 1H NMR characterization data provided), at 1.9 μ M concentration, doubled the clotting time.

AN 1999:184269 CAPLUS

DN 130:237884

TI Preparation of meta-benzamidine derivatives of amino acids or dipeptides as serine protease inhibitors

IN Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary;

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Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young, Stephen
Clinton; Morgan, Phillip John
PA Proteus Molecular Design Ltd., UK
SO PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9911658	A1	19990311	WO 1998-GB2605	19980828
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9888757	A1	19990322	AU 1998-88757	19980828
	EP 1009758	A1	20000621	EP 1998-940430	19980828
	R:	DE, FR, GB, IT			
	US 2002055522	A1	20020509	US 2001-988082	20011119
	US 6740682	B2	20040525		
	US 2003216403	A1	20031120	US 2003-296245	20030514
	US 2004143018	A1	20040722	US 2004-752568	20040108

PRAI	GB 1997-18392	A	19970829		
	GB 1998-3173	A	19980213		
	WO 1998-GB2605	W	19980828		
	GB 1999-13823	A	19990614		
	US 1999-142064P	P	19990702		
	US 2000-485678	A2	20000225		
	WO 2000-GB2291	A2	20000613		
	WO 2001-GB2566	W	20010612		
	US 2001-988082	A1	20011119		

OS MARPAT 130:237884

IT **221232-83-3P**

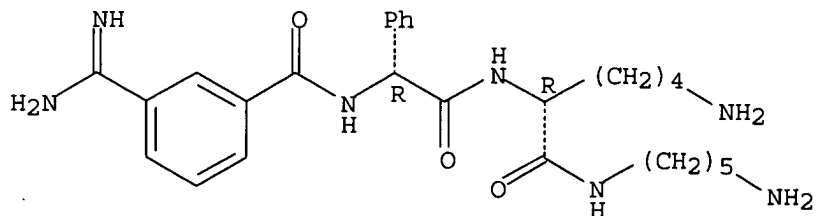
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

RN 221232-83-3 CAPLUS

CN D-Lysinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-N-(5-aminopentyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

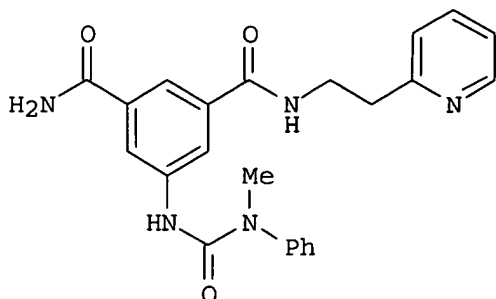


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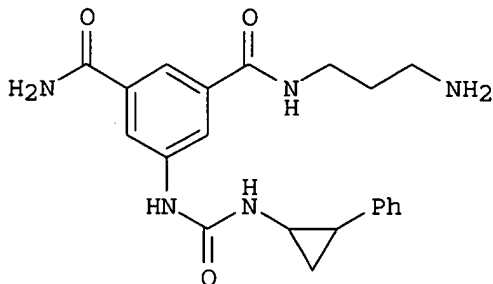
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RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I



II

AB The invention provides a library of compds. containing a common aminobenzenedicarboxylic acid core structure (scaffold) which serves as a template for synthesizing approx. 101-106 compds. which are analogs of the scaffold. The library is employed to study ligand binding by biol. receptors, such as enzymes, G-protein coupled receptors and membrane channels. For example, certain individual compds. within the library selectively bind and inhibit the action of trypsin-like serine proteases (no data). The invention also provides combinatorial synthetic methods for making such libraries. Addnl., the invention relates to novel scaffold-modified solid supports, especially resins, and methods for preparing them. Further, the invention is directed to screening methods, which comprise use of the compds. in suitable pharmaceutical assays. For instance, an Fmoc-protected Rink amide MBHA resin was deprotected, coupled with mono-Me 5-nitroisophthalate as a scaffold precursor, and reduced with SnCl₂ to give an amino ester resin. This was submitted to a sequence of reaction with triphosgene, amination to give a urea, ester hydrolysis, acid activation, amidation, and CF₃CO₂H clip. One obtained sublibrary (14 compds.) included compds. I and II.

AN 1998:394320 CAPLUS

DN 129:54189

TI Aminobenzenedicarboxylic acid-based combinatorial libraries for discovery of protease inhibitors

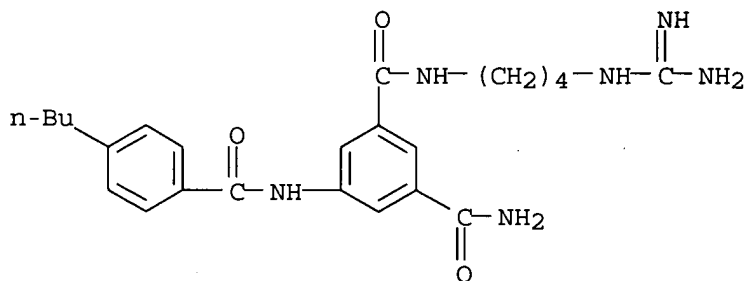
IN Graybill, Todd L.; Wu, Zhengdong; Subasinghe, Nalin; Fedde, Cynthia L.; Salvino, Joseph M.

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PA USA
SO PCT Int. Appl., 95 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9824760	A1	19980611	WO 1997-US21648	19971126
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9876242	A1	19980629	AU 1998-76242	19971126
	US 6127191	A	20001003	US 1997-980062	19971126
PRAI	US 1996-32284P	P	19961203		
	WO 1997-US21648	W	19971126		
OS	CASREACT 129:54189; MARPAT 129:54189				
IT	208756-58-5P				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of aminobenzenedicarboxylic acid-based combinatorial libraries for discovery of protease inhibitors)				
RN	208756-58-5 CAPLUS				
CN	1,3-Benzenedicarboxamide, N-[4-[(aminoiminomethyl)amino]butyl]-5-[(4-butylbenzoyl)amino]- (9CI) (CA INDEX NAME)				

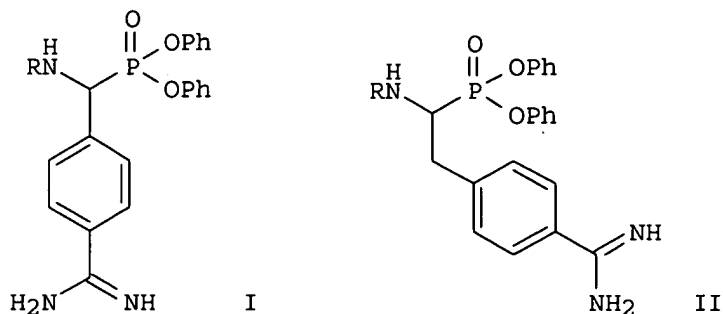


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
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AB Thirty-six new amino acid and peptidyl phosphonate esters, e.g. I [R = PhCH₂O₂C (Cbz), HO₂CCH₂CH₂CO (Suc), R₁CH:CHCO, 3-PhOC₆H₄CO, 2-PhOC₆H₄CO, 1-ClO₇H₇SO₂, 1-ClO₇H₇CH₂O₂C, Cbz-X, R₂-Pro, Suc-Ala-Ala, Boc-D-Phe-Pro, PhCH₂SO₂-Gly-Pro; R₁ = Ph, 2-furyl, 2-thienyl, 3-pyridyl; X = Ala, Val, Leu, Pro, Thr, Lys, Phe, Ala-Ala, Pro-Ala, Asp-Ala, Asp(OCMe₃)-Ala, Lys-Ala, Lys(Boc)-Ala, Phe-Ala, Ala-Ala-Ala; R₂ = 2-PhOC₆H₄CO, 3-PhOC₆H₄CO, Ph₂CHCH₂CO, PhCH₂CH₂CO; Boc = Me₃CO₂C] were synthesized and evaluated to identify potent and selective inhibitors for four trypsin-like proteases: lymphocyte granzymes A and K, human mast cell tryptase, and pancreatic trypsin. Among five Lys and Arg homologs, II (R = Cbz) is the most potent inhibitor for granzyme A, and CbzNHCH(PO₃Ph₂)(CH₂)₄NH₂.HCl (III) is the best inhibitor for granzyme K, mast tryptase, and trypsin. Generally, phosphonates I inhibit granzyme A and trypsin more potently than granzyme K and tryptase. Dipeptide phosphonates I (R = Cbz-Ala, Cbz-Thr) are the most potent inhibitors for granzyme A, and I (R = Cbz-Thr) (k_{obs}/[I] = 2220 M⁻¹ s⁻¹) was quite specific with much lower inhibition rates for granzyme K and trypsin (k_{obs}/[I] = 3 and 97 M⁻¹ s⁻¹, resp.) and no inhibition with tryptase. The most effective inhibitor of granzyme A was I (R = PhCH₂SO₂-Gly-Pro) with a second-order rate constant of 3650 M⁻¹ s⁻¹. The most potent inhibitor for granzyme K was I (R = Ph₂CHCH₂CO-Pro) with a k_{obs}/[I] = 1830 M⁻¹ s⁻¹; all other phosphonates inhibited granzyme K weakly (k_{obs}/[I] < 60 M⁻¹ s⁻¹). Human mast cell tryptase was inhibited slowly by these phosphonates with III as the best inhibitor (k_{obs}/[I] = 89 M⁻¹ s⁻¹). The overall results suggest that scaffolds of II (R = Phe-Thr) and Phe-Pro-Lys will be useful to create selective phosphonate inhibitors for granzymes A and K, resp., and that P₄ substituents offer opportunities to further enhance selectivity and reactivity.

AN 1998:338712 CAPLUS

DN 129:95705

TI Synthesis and Evaluation of Diphenyl Phosphonate Esters as Inhibitors of the Trypsin-like Granzymes A and K and Mast Cell Tryptase

AU Jackson, Delwin S.; Fraser, Stephanie A.; Ni, Li-Ming; Kam, Chih-Min; Winkler, Ulrike; Johnson, David A.; Froelich, Christopher J.; Hudig, Dorothy; Powers, James C.

CS School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA, 30332-0400, USA

SO Journal of Medicinal Chemistry (1998), 41(13), 2289-2301
CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

IT 209676-19-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

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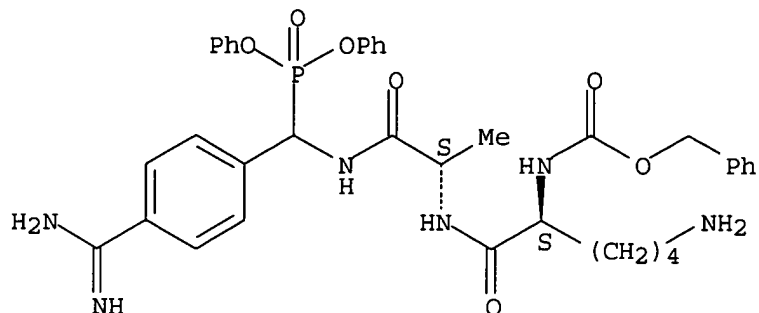
study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and structure-activity of phosphonate ester inhibitors of the trypsin-like granzymes A and K and mast cell tryptase)

RN 209676-19-7 CAPLUS

CN L-Alaninamide, N2-[(phenylmethoxy)carbonyl]-L-lysyl-N-[[4-(aminoiminomethyl)phenyl](diphenoxyphosphinyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

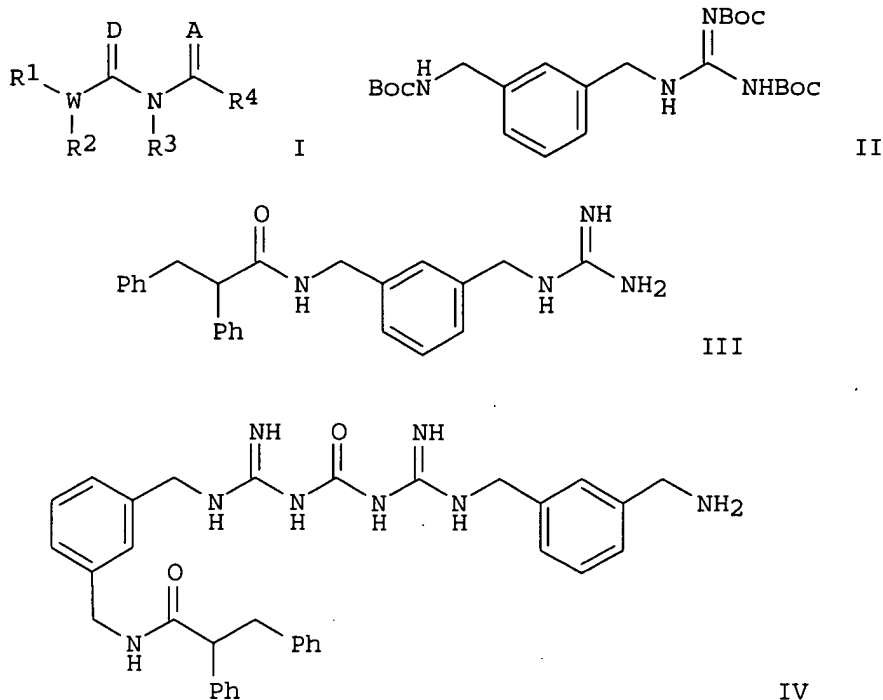


● HCl

RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
GI

4/28/05



AB Novel neuropeptide Y ligands I [A = O, S, NR; R = C1-8 alkyl; D = O, S, NR7, W = N, CH, CR8; R1, R3 = independently H, (un)substituted, straight or branched, cyclic or acyclic saturated or unsatd. C1-14 alkyl; R2 = Q(X3)-NR5-W2-R6; W2 = CO, SO2, CONH, S(O), bond; Q = (un)substituted (CH2)z, (CH2)m-Q1-(CH2)1, z = 1-12; when z > 1, 1 or more CH2 groups may be replaced by O, S, or substituted N; 1, m = independently 0-5; Q1 = C3-12 (un)saturated carbocyclic or heterocyclic ring; X3 = H, C1-8 alkyl, aryl, C1-8 alkoxy, OH, CF3, etc.; R4 = NR9R10, NR11-C(:A1)-NR9R10; A1 = O, S, NH, R12; R12 = H, C1-8 alkyl, aryl; R5-R9, R11, R12 = independently any group R1, aryl, heteroaryl; R10 = H, straight or branched, cyclic or acyclic, saturated or unsatd. C1-12 alkyl, (un)substituted aryl, aryloxyalkyl, 2- or 3-tetrahydrofurfuryl, (CH2)2-12-OH, amidoalkyl; NR9R10 = 3-10-membered ring], pure or partially separated stereoisomers or racemic mixts. thereof, free bases or pharmaceutically acceptable derivs. thereof, are disclosed. Comps. I are agonists and antagonists of neuropeptide Y, and are therefore useful as regulators of neuropeptide Y activity and in treating disorders related thereto. Thus, condensation of protected guanidine II (Boc = CO2CMe3) [prepared from 1,3-bis(aminomethyl)benzene and 1-(N,N'-di-Boc-amidino)pyrazole] and free guanidine III (prepared from II and 2,3-diphenylpropionylxb56 chloride), followed by deprotection, gave desired bis(amidino)urea IV. Compound IV inhibited binding of radiolabeled neuropeptide Y to cloned cell line receptors with IC50 = 70 nM.

AN 1998:147199 CAPLUS

DN 128:205146

TI Preparation of amidinourea derivatives as neuropeptide Y ligands

IN Gregor, Vlad Edward; Hong, Yufeng; Ling, Anthony Lai; Tompkins, Eileen Valenzuela

PA Agouron Acquisition Corp., USA; Gregor, Vlad Edward; Hong, Yufeng; Ling, Anthony Lai; Tompkins, Eileen Valenzuela

SO PCT Int. Appl., 75 pp.

CODEN: PIXXD2

10810649

4/28/05

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9807420	A1	19980226	WO 1997-US14854	19970822
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2268051	AA	19980226	CA 1997-2268051	19970822
	AU 9741592	A1	19980306	AU 1997-41592	19970822
	EP 984778	A1	20000315	EP 1997-939524	19970822
	EP 984778	B1	20020612		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001502296	T2	20010220	JP 1998-511019	19970822
	AT 218859	E	20020615	AT 1997-939524	19970822
	ES 2176776	T3	20021201	ES 1997-939524	19970822
	US 6849733	B1	20050201	US 1997-916527	19970822
PRAI	US 1996-25791P	P	19960823		
	WO 1997-US14854	W	19970822		

OS MARPAT 128:205146

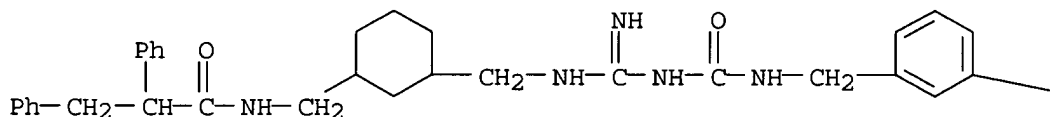
IT 204070-60-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amidinourea and bisamidinourea derivs. as neuropeptide Y agonists and antagonists)

RN 204070-60-0 CAPLUS

CN Benzenepropanamide, N-[[3-[[[[[[[3-(aminomethyl)phenyl]methyl]amino]carbo-
nyl]amino]iminomethyl]amino]methyl]cyclohexyl]methyl]- α -phenyl-
(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

—CH₂—NH₂

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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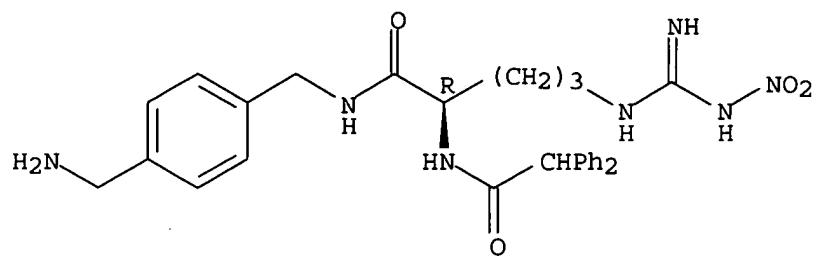
L4 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2005 ACS on STN
AB Title compds. T-Z-CONHCH(CH₂B)CO-Y-(CH₂)_nR [I; T = (un)substituted Ph, naphthyl, heteroarom., N, O, S, or T1TC2U; T1, T2 = (un)substituted Ph; U = H, alkoxy, OPh; Z = bond, O, NH, CH₂, CH₂CH₂, CH₂O, CH₂NH; B = amidine-containing group; Y = O, NR1; R1 = H, (un)substituted alkyl, CH₂Ph; n = 1-3; R = (un)substituted Ph], neuropeptide Y antagonists, were prepared
Thus, (R)-R₂NHC(:NH)NH(CH₂)₃CH(NHR₃)CONHR₄ [II; R₂ = 2,2,5,7,8-pentamethylchroman-6-sulfonyl (Pmc); R₃ = Fmoc; R₄ = CH₂C₆H₄CH₂NHCO₂CH₂Ph-4] was prepared from Fmoc-D-Arg(Pmc)OH and 4-PhCH₂O₂CNHCH₂C₆H₄CH₂CONH₂, Fmoc-deprotected, and diphenylacetylated, to give II (R₂ = Pmc; R₃ = COCHPh₂; R₄ = CH₂C₆H₄CH₂NH₂-4), which was N-acetylated and deprotected to give II-trifluoroacetate (R₂ = H; R₃ = COCHPh₂; R₄ = CH₂C₆H₄CH₂NHAc-4). I showed activity as neuropeptide Y antagonists in both in vitro (at 10⁻⁸ to 10⁻⁵ M) and in vivo tests (at 0.001 to 10 mg/kg).
AN 1997:473595 CAPLUS
DN 127:81788
TI Preparation of amino acid derivatives as neuropeptide Y antagonists
IN Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter; Entzeroth, Michael; Wienen, Wolfgang
PA Dr. Karl Thomae GmbH, Germany
SO Ger. Offen., 117 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19544687	A1	19970605	DE 1995-19544687	19951130
	CA 2238859	AA	19970605	CA 1996-2238859	19961126
	WO 9719911	A1	19970605	WO 1996-EP5222	19961126
	W: CA, JP, MX, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 885186	A1	19981223	EP 1996-941032	19961126
	EP 885186	B1	20030326		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000501390	T2	20000208	JP 1997-520166	19961126
	AT 235459	E	20030415	AT 1996-941032	19961126
	US 6114390	A	20000905	US 1997-950113	19971014
PRAI	DE 1995-19544687	A	19951130		
	WO 1996-EP5222	W	19961126		
	US 1998-945048	A	19980210		
OS	MARPAT 127:81788				
IT	191869-48-4P				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation of amino acid derivs. as neuropeptide Y antagonists)				
RN	191869-48-4 CAPLUS				
CN	Benzeneacetamide, N-[1-[[[4-(aminomethyl)phenyl]methyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-α-phenyl-, (R)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.

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